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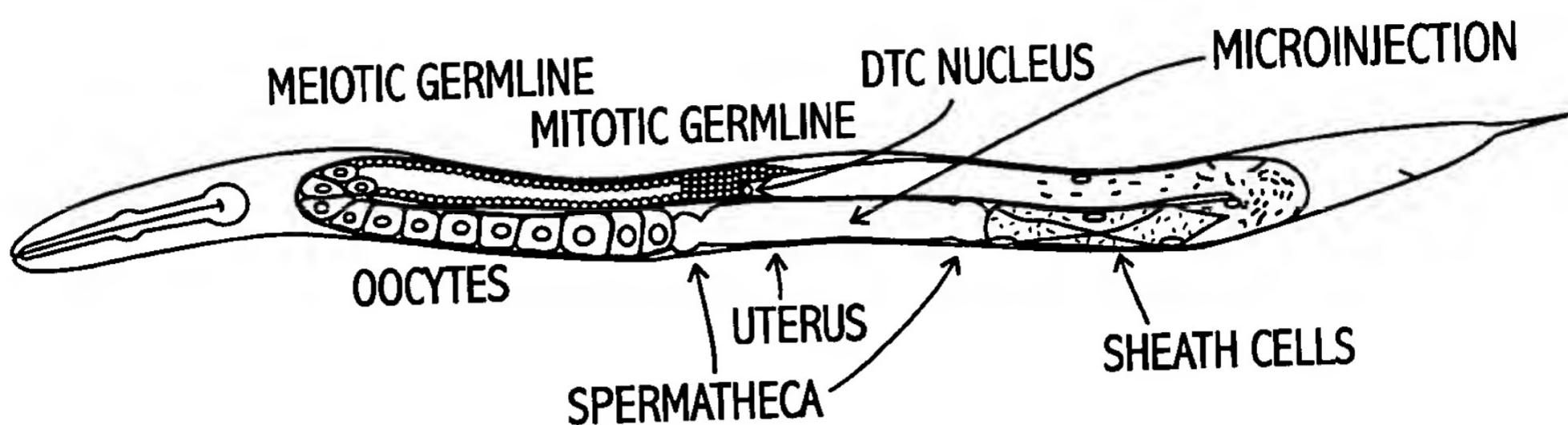


FIG. 1

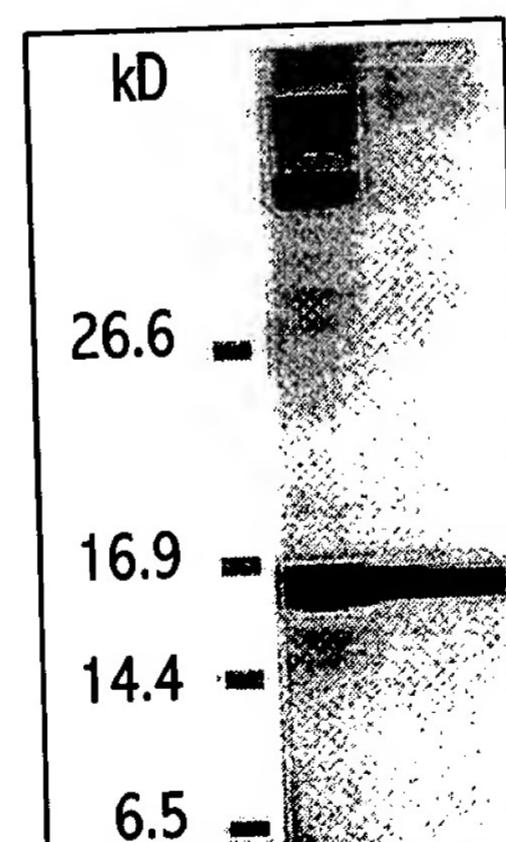


FIG. 2



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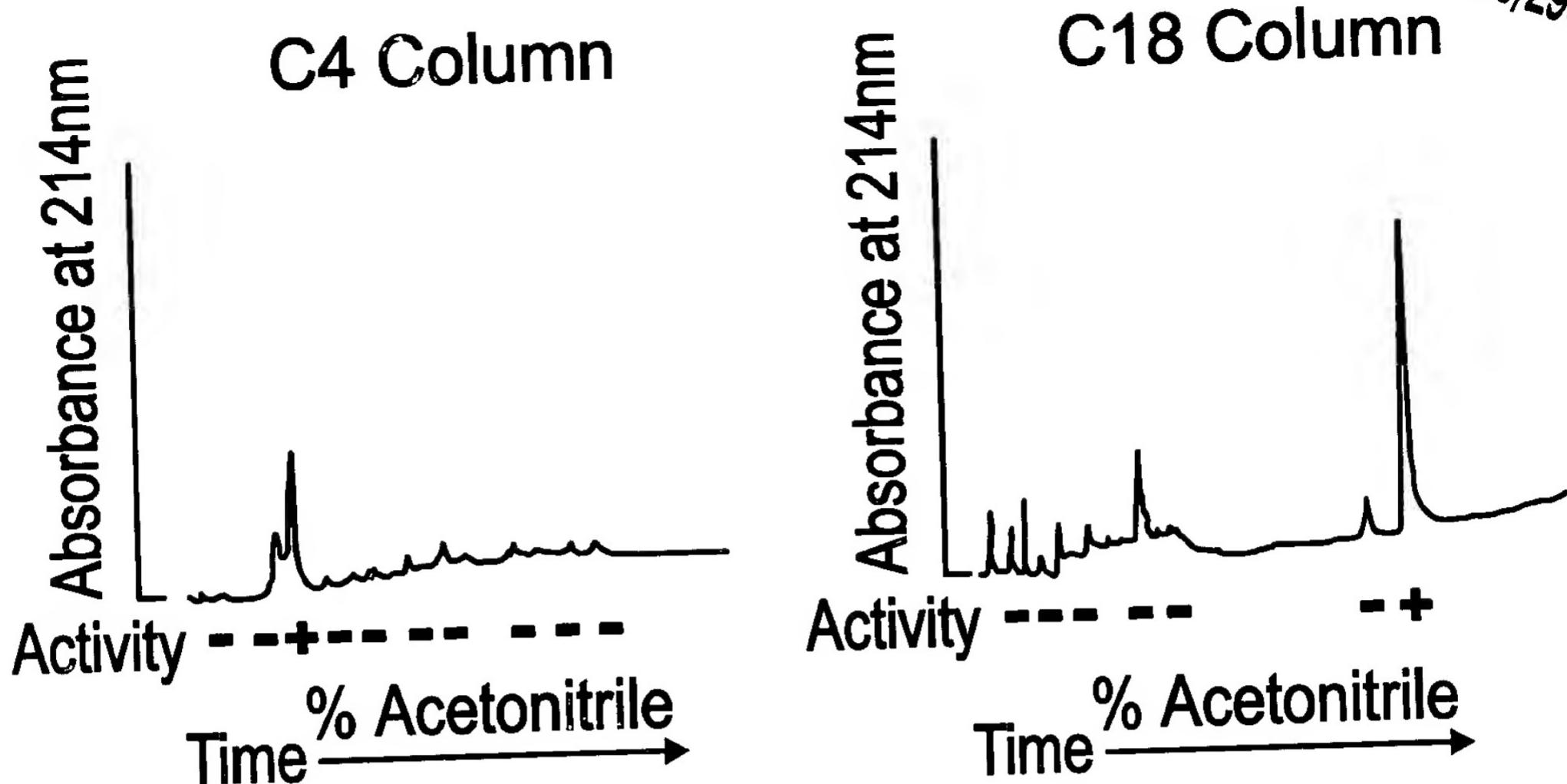


FIG. 3

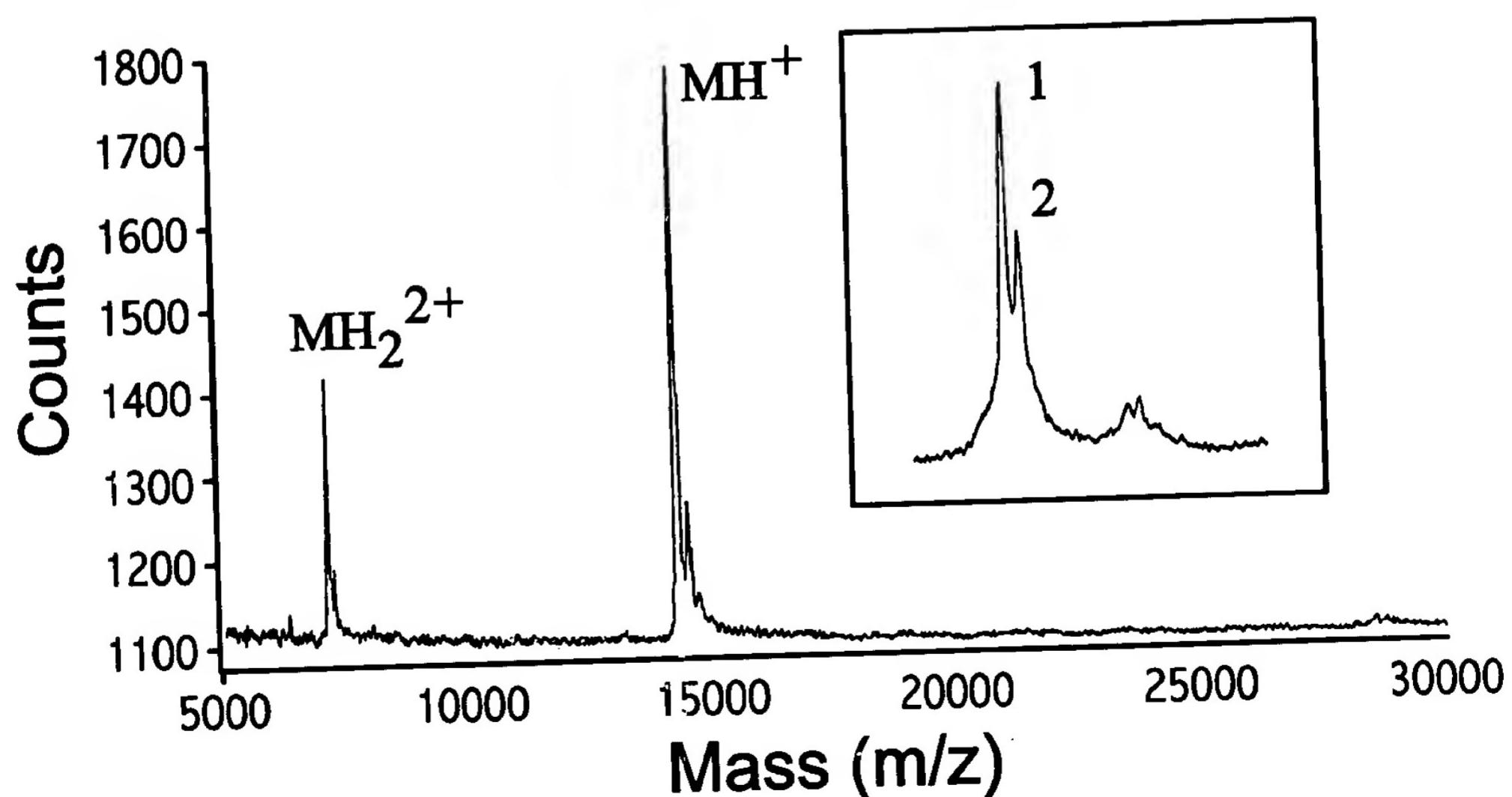


FIG. 4



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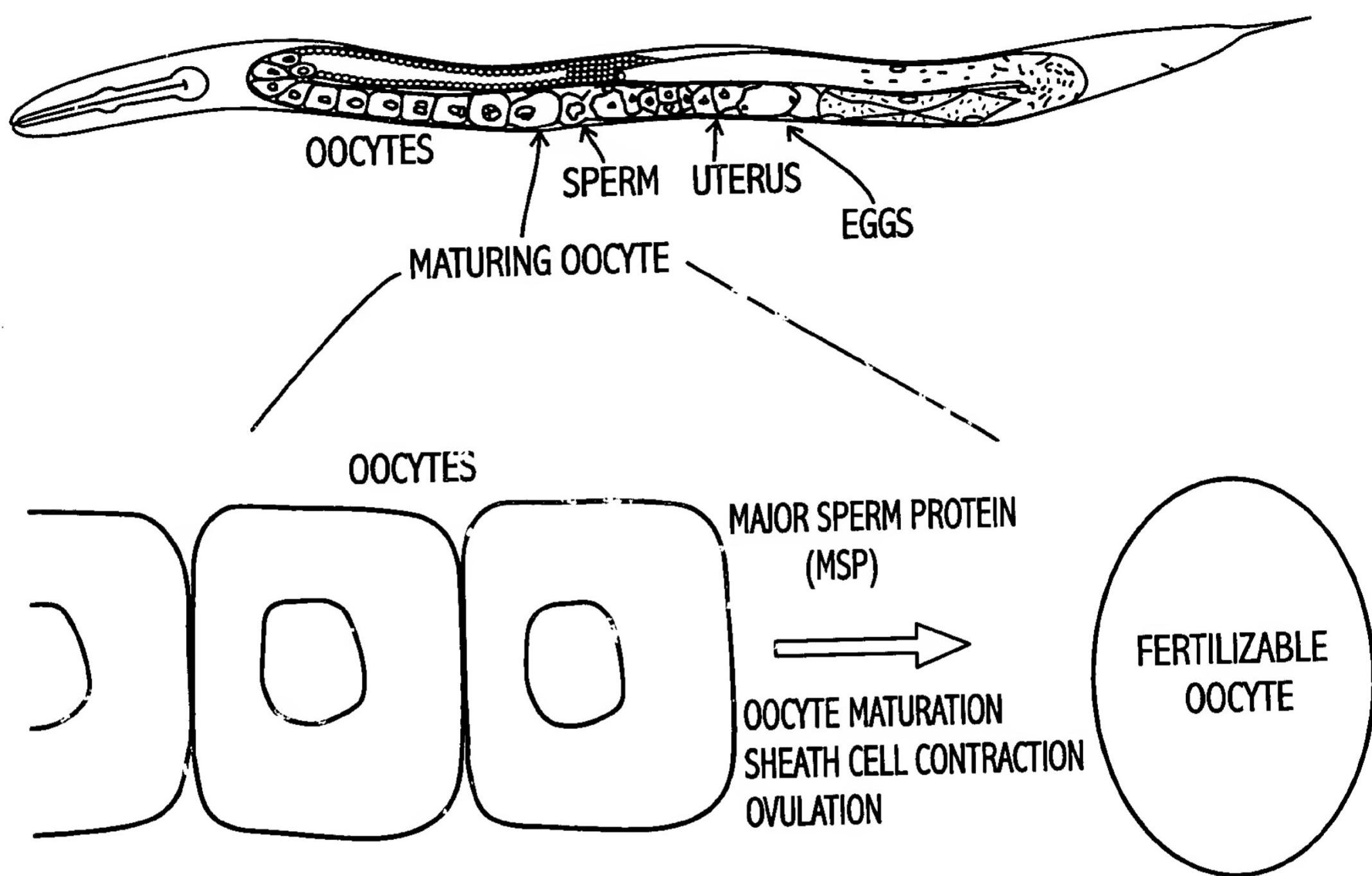


FIG. 5

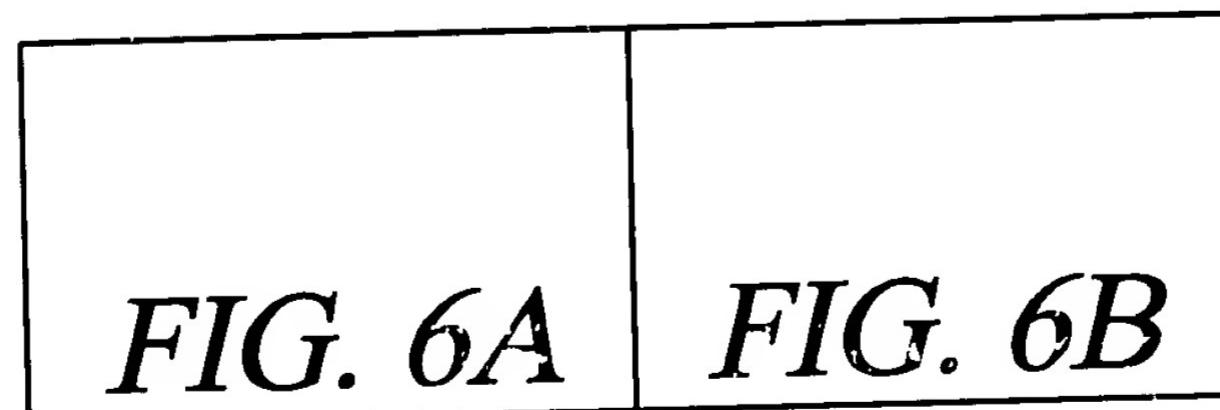


FIG. 6



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		10	20	30	40	50	60
MSP-3	M	AQSVP PPCDIQIQCFIGTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-10	M	AQSVP PPCDIQIQTQPNTAKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-19	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-31	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-33	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-38	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTDHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGFLDPKEAVL					
MSP-40	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTDHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGFLDPKEAVL					
MSP-45	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-49	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-50	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-51	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-53	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-55	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-56	M	AQSVP PPCDIQIQTQPNTAKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-57	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-59	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-63	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-64	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-65	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-76	M	AQSVP PPCDIQIQTQPNTAKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-77	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-78	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-79	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-81	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-113	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-142	M	AQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					
MSP-152	M	TQSVP PPCDIQIQTQPCTKIVENAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRRLGVDPCCGVLDPKEAVL					

FIG. 6A

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MSP-3	70	LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAARQFRREWVRRKRNLPPIEYNP	80	90	100	110	120	126
MSP-10		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAAKQFRREWVRRKRNLPPIEYNP						
MSP-19		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAZAKQFRREWVRRKRNLPPIEYNP						
MSP-31		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAAKQFRREWVRRKRNLPPIEYNP						
MSP-33		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAAKQFRREWVRRKRNLPPIEYNP						
MSP-38		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAAKQFRREWVRRKRNLPPIEYNP						
MSP-40		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAAKQFRREWVRRKRNLPPIEYNP						
MSP-45		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAZAKQFRREWVRRKRNLPPIEYNP						
MSP-49		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAFAKQFRREWVRRKRNLPPIEYNP						
MSP-50		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAAKQFRREWVRRKRNLPPIEYNP						
MSP-51		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAZAKQFRREWVRRKRNLPPIEYNP						
MSP-53		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAFAKQFRREWVRRKRNLPPIEYNP						
MSP-55		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAZAKQFRREWVRRKRNLPPIEYNP						
MSP-56		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAFAKQFRREWVRRKRNLPPIEYNP						
MSP-57		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAZAKQFRREWVRRKRNLPPIEYNP						
MSP-59		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAFAKQFRREWVRRKRNLPPIEYNP						
MSP-63		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAZAKQFRREWVRRKRNLPPIEYNP						
MSP-64		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAFAKQFRREWVRRKRNLPPIEYNP						
MSP-65		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAFAKQFRREWVRRKRNLPPIEYNP						
MSP-76		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAZAKQFRREWVRRKRNLPPIEYNP						
MSP-77		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAFAKQFRREWVRRKRNLPPIEYNP						
MSP-78		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAFAKQFRREWVRRKRNLPPIEYNP						
MSP-79		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAZAKQFRREWVRRKRNLPPIEYNP						
MSP-81		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAFAKQFRREWVRRKRNLPPIEYNP						
MSP-113		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAZAKQFRREWVRRKRNLPPIEYNP						
MSP-142		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAFAKQFRREWVRRKRNLPPIEYNP						
MSP-152		LAVSCDAFAFGQEDTNNDRITVIEWTNTPDGAFAKQFRREWVRRKRNLPPIEYNP						

FIG. 6B

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100
1 AQSVPPGDI~~Q~~^TQPGT~~K~~^IKIVFNAPYDDKHTYHIKVINS~~SARRIGYG~~^IKTTNM~~KRLGV~~^MDPPCGVLDPKE~~A~~^VL
20 P27439 M AQSVPPGDI~~N~~^TQPS~~Q~~^SKIVFNAPYDDKHTYHIKITNAGGR~~I~~GWA^IKTTNM~~RRLS~~^MRRRLS~~S~~VDP~~P~~CGVLDPKE~~K~~^VL
30 P27440 M AQSVPPGDI~~N~~^TQPG~~S~~KIVFNAPYDDKHTYHIKITNAGGR~~I~~GWA^IKTTNM~~RRLG~~^MRRRLGVDPPCGVLDPKE~~S~~^VL
40
50
60

70
70
80
90
100
110
120
126

MSP-142 M LAVSCDA~~F~~^A~~F~~^G~~Q~~^EDTNNDRITIEWNTNTPDGA~~A~~^KQFRREW~~F~~^QGDGMVR~~R~~^KNLP~~I~~EYN~~P~~^E SEQ ID NO:1
P27439 MAVSCDTFNAATEDLNNDRITIEWNTNTPDGA~~A~~^KQFRREW~~F~~^QGDGMVR~~R~~^KNLP~~I~~EYN~~L~~^E SEQ ID NO:11
P27440 MAVSCDTFNAATEDLNNDRITIEWNTNTPDGA~~A~~^KQFRREW~~F~~^QGDGMVR~~R~~^KNLP~~I~~EYN~~L~~^E SEQ ID NO:12

FIG. 7



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	106	110	120	126
AsMSP α	R	EWFQGDGMVRRKNLPIEYNL		
AsMSP β	R	EWFQGDGMVRRKNLPIEYNL		
GrMSP1	L	EWFQGDGMVRRKNLPIEYNV		
GrMSP2	L	EWFQGDGMVRRKNLPIEYNV		
GrMSP3	L	EWFQGDGMVRRKNLPIEYNV		
CeMSP142	R	EWFQGDGMVRRKNLPIEYNP		
CeMSP33	R	EWFQGDGMVRRKNLPIEYNP		
OvMSP1	R	EWFQGDGMVRRKNLPIEYNL		
OvMSP2	R	EWFQGDGMVRRKNLPIEYNL		

FIG. 9

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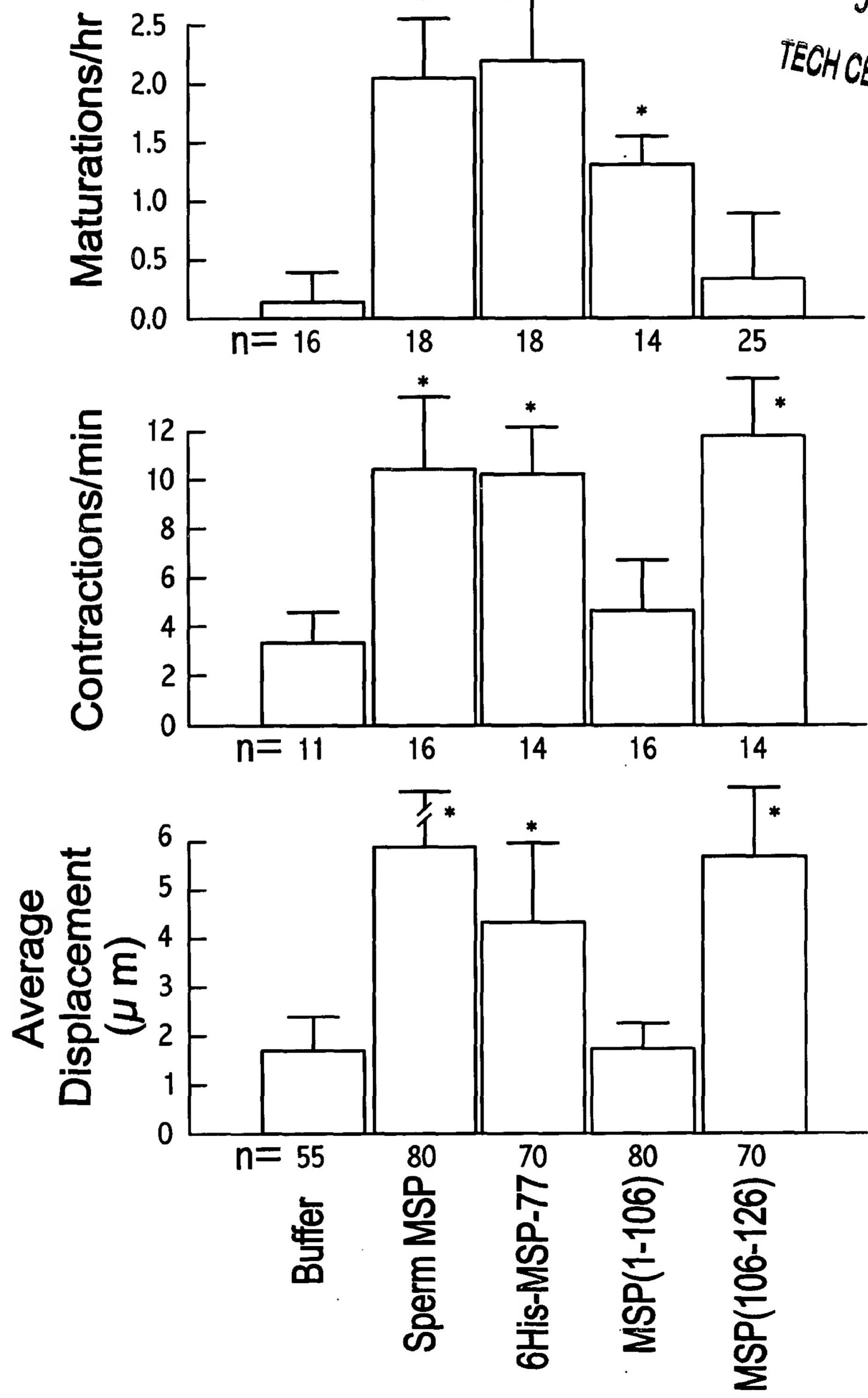
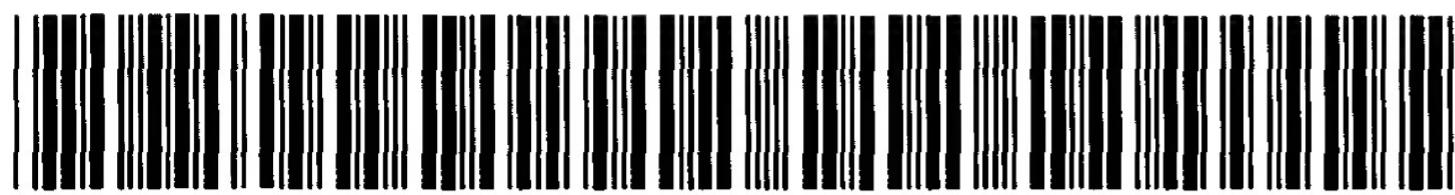


FIG. 10

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